

REPORT ON BOILERS.

No. 28430

Received at London Office 30 OCT. 1922

Date of writing Report

10

When handed in at Local Office

- 2 OCT 1922

Port of

SUNDERLAND.

No. in Survey held at

SUNDERLAND.

Date, First Survey

Last Survey

Sep 26 1922

Reg. Book.

on the *Miss Hansen & Co. S.S. Co. S/S. PUNNELSTONE*

(Number of Visits)

Gross

Tons

Net

Master

Built at

Bidford

By whom built

Miss Hansen & Co

When built 1922

Engines made at

Sunderland

By whom made

Miss Macdonald & Pollock (314)

When made 1922

Boiler made at

Sunderland

By whom made

Miss Macdonald & Pollock (322)

When made 1922

Registered Horse Power

Owners *Hansen Shipping Co.*Port belonging to *London*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel *Spencer & Sons*(Letter for record *S*)

Total Heating Surface of Boilers

SEE OTHER SHEET

Is forced draft fitted

NO

No. and Description of

Boilers *SEE OTHER SHEET*Working Pressure *180 lb*Tested by hydraulic pressure to *360 lb*Date of test *18.9.22*No. of Certificate *3812*Can each boiler be worked separately *YES*

Area of fire grate in each boiler

SEE OTHER SHEET

No. and Description of

safety valves to each boiler *SEE OTHER SHEET*Area of each valve *SEE OTHER SHEET*

Pressure to which they are adjusted

Are they fitted with easing gear

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

Ex

Mean dia. of boilers *11-0*Length *10-6*

Material of shell plates

S

Thickness

*29/32*Range of tensile strength *28-32*

Are the shell plates welded or flanged

NO

Descrip. of riveting: cir. seams

lap 4H

long. seams

lap 1 1/2 H. riv

Diameter of rivet holes in long. seams

*1 1/2*Pitch of rivets *7 3/8*

Lap of plates or width of butt straps

15 1/2

Per centages of strength of longitudinal joint

rivets

95-6

Working pressure of shell by

rules *181*Size of manhole in shell *12 x 16*Size of compensating ring *28 x 26 x 29/32*

plate

85-6

No. and Description of Furnaces in each

boiler *2 Plain*Material *S*Outside diameter *38 1/2*

Length of plain part

top

6-4

Thickness of plates

crown

23/32

bottom

*32*Description of longitudinal joint *welded*

No. of strengthening rings

Working pressure of furnace by the rules *181*

Combustion chamber

plates: Material *S*

Thickness: Sides

4 1/4

Back

2 1/2

Top

2 1/2

Bottom

2

Pitch of stays to ditto: Sides

8 1/4 x 9

Back

*8 1/4 x 9 1/4*Top *9 x 9*

If stays are fitted with nuts or riveted heads

*nuts*Working pressure by rules *181*Material of stays *S*

Area at

smallest part *1.73"*Area supported by each stay *76.25"*Working pressure by rules *182*End plates in steam space: Material *S*

Thickness

*31/32*Pitch of stays *15 x 15*How are stays secured *d.n. & w.*Working pressure by rules *183*Material of stays *S*Area at smallest part *4.10"*Area supported by each stay *225"*Working pressure by rules *187*Material of Front plates at bottom *S*

Thickness

31/32

Material of

Lower back plate *S*

Thickness

*31/32*Greatest pitch of stays *12 1/2*Working pressure of plate by rules *292*Diameter of tubes *3 1/4*Pitch of tubes *4 3/8 x 4 3/8*Material of tube plates *S*

Thickness: Front

31/32

Back

*51/64*Mean pitch of stays *8 1/8 x 13 5/8*

Pitch across wide

water spaces *13 1/2*Working pressures by rules *184*Girders to Chamber tops: Material *S*

Depth and thickness of

girder at centre *7 3/8 x 1 1/8*Length as per rule *29 1/2*Distance apart *9"*Number and pitch of Stays in each *2, 9"*Working pressure by rules *184*

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

The foregoing is a correct description,

MAGGOLL & POLLOCK
G. B. Pollock

Manufacturer.

Dates

During progress of

Please see Rpt 4

Is the approved plan of boiler forwarded herewith

YES

while

During erection on

board vessel

Total No. of visits

GENERAL REMARKS

(State quality of workmanship, opinions as to class, etc.)

NOTE: The two main boilers for this vessel are from different contracts, i.e. No 314 & 322. They are both the same diameter but of somewhat different design, and two reports are therefore forwarded in order that a correct record may be kept. These boilers have now been fitted & secured in place.

Survey Fee

SEE OTHER SHEET

When applied for

19

Travelling Expenses (if any) £

SHEET

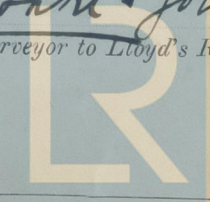
When received

19

Committee's Minute

FRI. JAN. 19 1923

Assigned

*See memo on 7.6.**G. B. Pollock*
Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

002602-002610-0247